PHMC Environmental Management Performance Report – December 2000 Section B:2 – Analytical Services (222-S, HASP, WSCF)



Section B:2 Analytical Services (222-S, HASP, WSCF)

PROJECT MANAGERS

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SUMMARY

The Analytical Services (AS) Project [222-S, Hanford Analytical Services Program (HASP), Waste Sampling and Characterization Facility (WSCF)] consists of Analytical Services, PBS WM06, WBS 1.2.4.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of October 31, 2000. Other data is updated as noted.

ACCOMPLISHMENTS

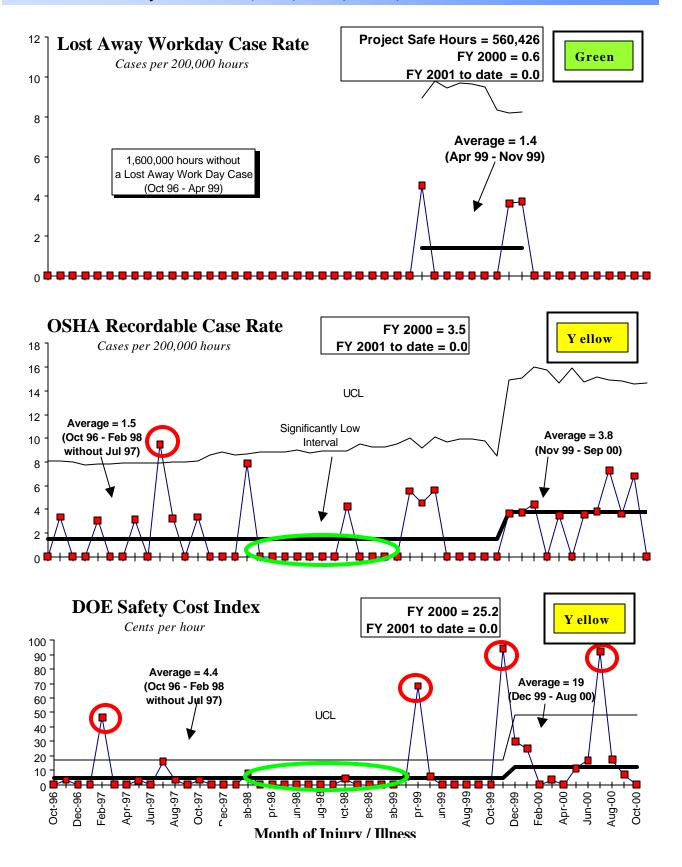
- Processed a total of 0.8 Analytical Equivalency Unit (AEUs) (versus 0.2 AEUs planned) at the 222-S Laboratory in October in support of the River Protection Project (RPP) (TWRS) tank characterization program. Production through November 17, 2000 is 1.3 AEUs. A letter has been released from Office of River Protection (ORP) allowing a waiver for analytical waste generated at 222-S from Polychlorinated Biphenyl (PCB) acceptance criteria until the end of December 2000.
- Performed 2,782 analyses through November 2000 at WSCF for a wide variety of customers.
- The State of Washington Department of Ecology (Ecology) completed an assessment of WSCF in November. The closeout meeting was very positive; Ecology complimented the facility for its professional support of the assessment. In addition, Ecology also complimented the Laboratory Information Management System (LIMS) and the way priorities are communicated to the bench chemists. No negative observations were made.
- Eight pollution prevention projects from the 222-S Laboratory are being nominated in four categories for pollution prevention awards to the Department of Energy at the RL level. General project descriptions include: reduction of glassware in the laboratory for sample preparation, education and outreach through the aluminum can recycling for Christmas families and the Safety Expo, recycling laboratory standards materials for research use at Pacific Northwest National Laboratory (PNNL), and implementation of laboratory waste minimization methods for environmental impact through return on investment and legal agreements. RL will submit projects that are awarded at the national level for the White House "Closing the Circle" award.
- Dr. Steven Bakhtiar of Analytical Services chaired the 46th Annual Bioassay, Analytical, and Environmental Radiochemistry (BAER) Conference in Seattle in November 2000.
- Consent Agreement and Final Order RCRA-10-99-0106, which addressed drum storage in the 200 East Pipe Yard, was issued to RL on October 16, 2000 and committed RL to the completion of two Supplemental Environmental Projects (SEP). SEP #2 is a pollution prevention/reduction project to develop and implement new analytical procedures that would eliminate sodium interferences for certain laboratory methods used at Hanford for tank waste. Analytical Services initiated work on SEP #2 in advance of formal RL authorization, but within 30 calendar days of receipt as required by the Final Order. RL is aware of AS action and is working to provide formal direction and funding.

SAFETY

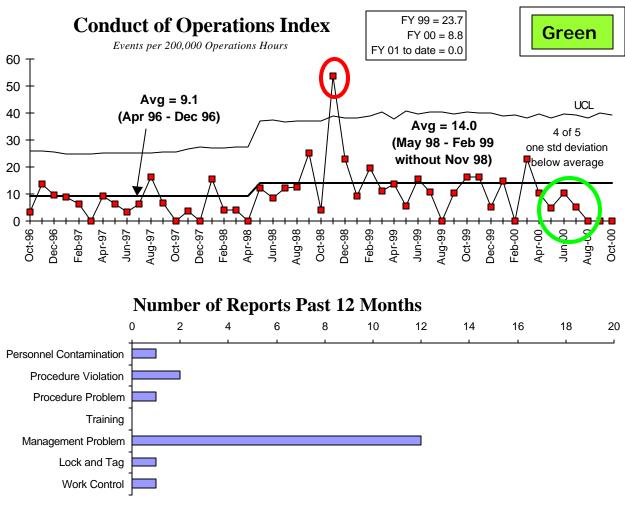
In October, there were no OSHA recordable cases, no Restricted Workday Cases, and two First Aid Cases. It was the first month since April 2000 with no OSHA recordable cases. The OSHA recordable case rate increased, with two of the past three months at two standard deviations above average. The DOE Safety Cost Index was also rebaselined upwards due to recent increasing trends.

Analytical Services continues to focus on ergonomic issues, and has brought in Hanford Environmental Health Foundation (HEHF) expertise to 222-S to assist in ergonomic evaluations and Development Staff to revise sample cask handling methods. It is anticipated that this action will improve the Case Rates.

Two chemical technologists from the 222-S Laboratory Analytical Services team made a presentation to the President's Zero Accident Council (PZAC) on the new-shielded carrier design, including a demonstration with a prototype. The presentation was well received.







ISMS STATUS

Analytical Services ISMS status is included in the Waste Management Project Section of this report.

BREAKTHROUGHS

Nothing to report at this time.

OPPORTUNITIES FOR IMPROVEMENT

Nothing to report at this time.

UPCOMING ACTIVITIES

- WIPP Waste Shipments Continue to support the production goal of headspace analysis in support of waste shipments to WIPP. Continued discussions with INEEL regarding possible support to the INEEL WIPP program.
- **ORP Waste Treatment Plant** Support DOE-RL and ORP efforts to evaluate options for long-term high-activity laboratory support to the Site cleanup mission (i.e. 222-S, WTP laboratory, a new laboratory, etc.).
- 222-S RCRA Part B Application Continue to support development of Modification F (which includes 222-S Part B application) of the Hanford Facility (HF) RCRA Permit review.

 Modification F will be issued after issuance of Modification E (which includes WRAP and CWC).
- **PCB Management** Continue to work with RL and ORP on PCB management and regulatory issues.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Analytical Services	\$2.0	\$2.9	- \$1.0*

^{*}Rounding

The \$1.0 million (49 percent) unfavorable cost variance is due to the accrual of FY 2000 fee without a corresponding reversal. The unfavorable variance is partially offset by underruns due to costing delays normally associated with fiscal year startup (lagging contract costs, reversal of FY 2000 yearend accruals, delays in billings of assessments). The actual cost variance for October is a favorable \$0.4M.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Analytical Services	\$2.0	\$2.0	\$0.0

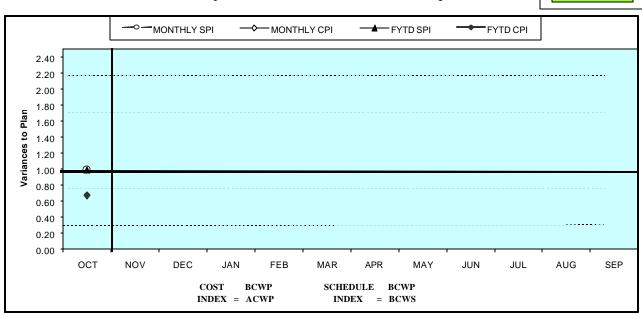
There is no schedule variance.

FY 2001 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

				FY	ΓD			Gı	reen
By F WBS 1.2.4	PBS Analytical	BCWS	BCWP	ACWP	sv	%	CV	%	PEM
PBS WM06	•	\$ 2,000	\$ 1,975	\$ 2,948	\$ (25)	-1%	\$ (973)	-49%	\$ 32,139
	Total	\$ 2,000	\$ 1,975	\$ 2,948	\$ (25)	-1%	\$ (973)	-49%	\$ 32,139

Note: RL-Directed costs (steam and laundry) are included.

COST/SCHEDULE PERFORMANCE INDICES (MONTHLY AND FYTD)



FY 2001	ОСТ	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	лл.	AUG	SEP
MONTHLY SPI	0.99			-								
MONTHI Y CPI	0.67											
FYTD SPI	0 99											
FYTD CPI	0.67											
MONTHI Y RCWS	\$2,000	\$3.098	\$2 599	\$2 772	\$2 316	\$2 549	\$2 511	\$3,046	\$2 324	\$2 306	\$3,030	\$3 588
MONTHI Y RCWP	\$1,975	, . ,	, ,	. ,	, ,-	. ,	, ,-	, - , -	, ,-	, ,	, , , , , ,	1 - 7
MONTHLY ACWP	\$2 948											
FYTD RCWS	\$2,000	\$5.098	\$7 697	\$10.469	\$12 785	\$15 334	\$17.845	\$20,890	\$23,214	\$25,520	\$28 551	\$32 139
FYTD RCWP	\$1,975	, . ,	, . ,	, .,	, ,	, -,	, .,.	, ,,,,,	,	, -,-	, -,	1- /
EVTD ACWP	\$2.948											

Green

COST VARIANCE ANALYSIS: (-\$1.0M)

WBS/PBS <u>Title</u>

1.2.4/WM06 Analytical Services

Description/Cause: The unfavorable cost variance of \$1.0 million (49 percent) is due to the accrual of FY 2000 fee without a corresponding reversal. The unfavorable variance is partially offset by underruns due to costing delays normally associated with fiscal year startup (lagging contract costs, reversal of FY 2000 yearend accruals, delays in billings of assessments). The true cost variance for October is a favorable \$0.4M.

Impact: None.

Corrective Action: None required.

SCHEDULE VARIANCE ANALYSIS: (\$0.0M)

WBS/PBS <u>Title</u>

1.2.4/WM06 Analytical Services

Description / Cause: None.

Impact: None.

Corrective Action: None required.

ISSUES

Technical Issues

Nothing to report at this time.

DOE/Regulator/External Issues

Polychlorinated Biphenyls (PCBs) Management — Analytical Services participated in a PCB workshop with EPA, Ecology, DOE, and contractor personnel in August 2000, to discuss management of PCBs at Hanford. The primary topics of discussion dealt with the consequences of managing tank farms waste as Toxic Substance Control Act (TSCA) regulated, the anticipated path-forward, and the associated impacts to interrelated facilities. EPA has recognized the concern with implementation of TSCA in conjunction with Hazardous Waste and Radioactive Waste requirements in a laboratory setting. EPA has requested an alternate management strategy for Hanford Analytical Laboratories. Analytical Services is working with PNNL to develop this strategy.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE	BCD TITLE	COST IMPACT \$000	S C H	Т Е С н	DATE TO	CCB	DI ADD'VD	CURRENT STATUS
FH-2001-001	9/12/00	Base Ops Reduction for PHMC Projects	-\$610		X		09/13/00		At DOE-RL
FH-2001-002	9/25/00	FY2001 Fee Reduction to 90%	-\$190				09/13/00		At DOE-RL
	ADVANCE WORK AUTHORIZATIONS								
		Nothing to report at this time.	·			·			

MILESTONE ACHIEVEMENT



		FISCAL YEAF	R-TO-DATE		REMAI	NING SCHE	DULED	
MILESTONE TYPE	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	TOTAL FY 2001
Enforceable Agreement	0	0	0	0	0	0	0	0
DOE-HO	0	0	0	0	0	0	0	0
RI	0	0	0	0	0	1	0	1
Total Project	0	0	0	0	0	1	0	1

Tri-Party Agreement / EA Milestones					
Nothing to report at this time.					
DNFSB Commitments					
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MILESTONE EXCEPTION REPORT

Number/WBS Level Milestone Title Date Date

OVERDUE - 0

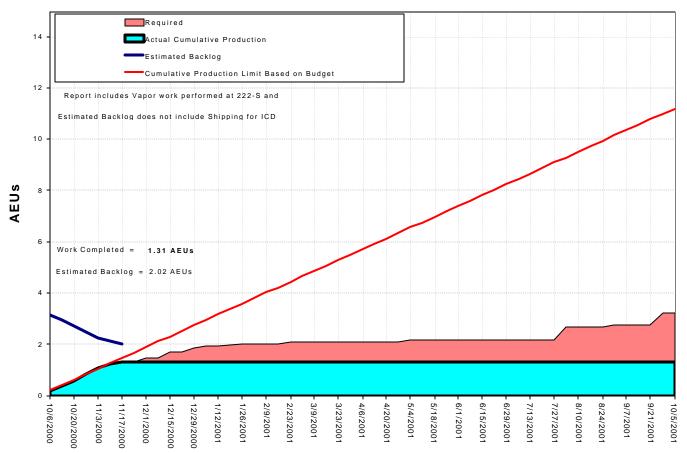
FORECAST LATE - 0

PERFORMANCE OBJECTIVES



Budgeted Capacity vs. Actual Production - TW01

November 17, 200



Processed a total of 0.8 AEUs at the 222-S Laboratory in October (versus 0.2 AEUs planned) in support of the RPP (TWRS) tank characterization program. Production through November 17 is 1.3 AEUs.

KEY INTEGRATION ACTIVITIES

- Continue to support ORP efforts to establish required analytical support for Waste Treatment Plant (WTP) design and operation.
- Continue to support Waste Management headspace gas analyses for transuranic (TRU) waste shipment to WIPP.